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English Translations of the Pertinent Portions of the Cited References1. Japanese Patent "Kokai" No. 08-280043

Through the use of the arrangement illustrated in Fig. 2, polyethylene plates were welded in end-to-end relationship with each other, wherein small polyethylene piece was employed as welding material. Specifically, polyethylene welding material was placed at a portion to be welded which defines a seam between the polyethylene plates, and then light ray emanating from a halogen lamp was irradiated thereonto. Part of the light ray was absorbed by the welding material, while the remaining part thereof was passed to the polyethylene plates to be welded together so that the surfaces of the polyethylene plates were thereby heated so as to be fused with the welding material soon. As a result, the welding material, when melted, turns out to be clear. Thus, it is possible to determine whether proper heating is being effected.

In Fig. 2:

1.....Reflector; 2.....Halogen lamp; 8.....Welding material;

4.....Plastic plates to be welded together; 6.....Concrete A.....Light rays

WELDING OF SYNTHETIC RESIN MATERIAL

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Inventor(s): SHINDO ISAMU;; KOBAYASHI YASUMI;; SUGITA YOSHIO
Applicant(s): AISAMU:KK
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Application Number: JP19950038892 19950227
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IPC Classification: B29C65/14
EC Classification:
Equivalents:

Ref 1

Abstract

PURPOSE: To facilitate the judgment of a welding state and to rapidly, certainly and perfectly weld a synthetic resin material with excellent workability.
CONSTITUTION: In a method for welding a synthetic resin plate or pipe, a synthetic resin welding material 3 having high transparency is placed on a synthetic resin material 4 to be welded and irradiated with infrared rays A from the outside thereof to directly heat the synthetic resin material 4 to be welded to weld the same.

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【符号の説明】

1 反射板

2 ハロゲンランプ

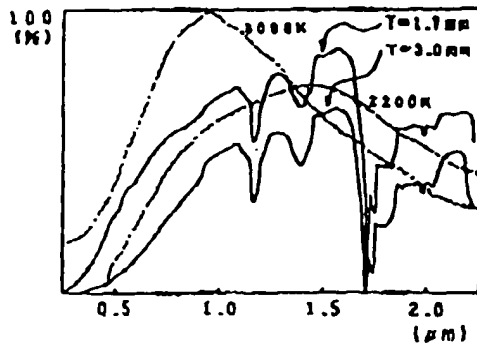
3 溶接材

4 低熔点合成樹脂材

5 コンクリート

A 光（赤外線）

【図1】



【図2】

